

# FIS T-Series (Blue-Dye) Epoxy

## DESCRIPTION:

FIS T-Series Blue Dye epoxy is an optically clear, low viscosity, two part epoxy developed for bonding optical glass fibers to ceramic and metal surfaces. This adhesive has multiple curing schedules which includes the ability to cure at room temperature. The T-Series epoxies offer resistance to mechanical impact and thermal shock, and are also resistant to weather, water, petroleum products, salts and mild acids and alkaloids.

## TYPICAL PROPERTIES:

NUMBER OF COMPONENTS	Two	VISCOSITY (23° C/20rpm)	mixed 3,850 cPs
MIX RATIO	PARTS BY WEIGHT	OPERATING TEMPERATURE	-60 to 100° C
Part A (Resin)	10	SPECIFIC GRAVITY	mixed 1.10
Part B (Hardener)	3	GLASS TRANSITION TEMP. (Tg)	95° C
CURING SCHEDULE		DEGRADATION TEMP.	345° C
Room Temperature	overnight	HARDNESS, Shore D	78
65° C	1 hours	WEIGHT LOSS @ 200° C	1.5%
80° C	1/2 hour	SPECTRAL TRANSMITTANCE	% (3200-9000 Å)
POT LIFE			97
in a vial or dish	2 hours		
in a syringe	45 minutes		
SHELF LIFE			
One year when stored at room temperature.			
COLOR			
Part A	Clear		
Part B	Blue		

## NOTE:

Some ingredients in this formulation may crystallize over time especially when stored at below room temperature. This crystallization may impede the proper curing of the epoxy. Warming the pack to 125°F for a minute using a heat gun or an oven will re-dissolve the crystals back into solution. The epoxy may then be mixed, and used normally.



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